

WHAT IS CLAIMED IS:

1. An isolated nucleic acid molecule encoding a rat p-Hyde protein comprising a nucleic acid sequence sharing at least 95% identity as that set forth in SEQ ID No. 3.
2. The isolated nucleic acid molecule of claim 1, wherein the nucleic acid is DNA or RNA.
3. The isolated nucleic acid of claim 7, wherein the nucleic acid is cDNA or genomic DNA.
4. The isolated nucleic acid of claim 1, wherein the nucleic acid is labeled with a detectable marker.
5. The isolated nucleic acid of claim 4, wherein the detectable marker is a radioactive, colorimetric, luminescent, fluorescent marker, or gold label.
6. A vector comprising the isolated nucleic acid molecule of claim 1.
7. The vector of claim 6, further comprising a promoter operatively linked to the isolated nucleic acid molecule.
8. The vector of claim 6, wherein the promoter comprises a bacterial, yeast, insect or mammalian promoter.
9. The vector of claim 6, wherein the vector is a plasmid, cosmid, yeast artificial chromosome (YAC), bacterial artificial chromosome (BAC), adenovirus, adeno-associated virus, retrovirus, P1 bacteriophage or eukaryotic viral DNA.

10. The adenovirus vector of claim 9, wherein the adenovirus vector is a replication-deficient adenovirus type 5 expression vector.

11. The adenovirus vector of claim 10, wherein the adenovirus vector comprises an adenovirus genome having a deletion in the E1 and E3 region of the genome wherein the isolated nucleic acid molecule encoding rat p-Hyde is inserted within a deletion in the E1 and E3 region of the genome.

12. The vector of claim 7, wherein the promoter is a Rous Sarcoma virus promoter.

13. A host vector system for the production of a polypeptide which comprises the vector of claim 6 in a suitable host.

14. The host vector system of claim 13, wherein the suitable host is a prokaryotic or eukaryotic cell.

15. The host vector system of claim 14, wherein the eukaryotic cell is a yeast, insect, plant or mammalian cell.

16. The isolated nucleic acid molecule of claim 1, comprising a nucleic acid sequence encoding for a variant, analog or mutant of the rat p-Hyde protein.

17. An oligonucleotide of at least 15 nucleotides capable of specifically hybridizing with a nucleic acid molecule encoding a rat p-Hyde protein, wherein said nucleic acid molecule comprises a sequence as set forth in SEQ ID No: 3 or 5.

18. The oligonucleotide of claim 17, wherein said oligonucleotide comprises DNA or RNA.

19. The oligonucleotide of claim 17, wherein said oligonucleotide is labeled with a detectable marker.

20. The oligonucleotide of claim 19, wherein said detectable marker is a radioactive, colorimetric, luminescent, fluorescent marker or gold label.

21. The oligonucleotide of claim 17, wherein said oligonucleotide is in sense or antisense orientation.

22. An oligonucleotide of at least 15 nucleotides capable of specifically hybridizing with a nucleic acid molecule encoding for a variant, analog or mutant of the rat p-Hyde protein.

23. An isolated nucleic acid molecule having a nucleic acid sequence complementary to the sequence as set forth in SEQ ID No. 3 or 5.

24. An isolated nucleic acid molecule encoding a rat p-Hyde protein comprising a nucleic acid sequence sharing at least 85% identity as that set forth in SEQ ID No. 3.

25. An isolated nucleic acid molecule encoding a rat p-Hyde protein comprising a nucleic acid sequence as set forth in SEQ ID No. 3, 5 or 6.